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| APPLICATION NO.                        | FILING DATE                                 | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|--|---|----------------------|---------------------|------------------|--|
| 10/507,074                             | 09/09/2004                                  | Tokumatsu Ohto       | 740819-1086         | 4414             |  |
| 22204<br>NIXON PEAR                    | 22204 7590 01/10/2008<br>NIXON PEABODY, LLP |                      |                     | EXAMINER         |  |
| 401 9TH STREET, NW                     |   |                      | OMGBA, ESSAMA       |                  |  |
| SUITE 900<br>WASHINGTON, DC 20004-2128 |   |                      | ART UNIT            | PAPER NUMBER     |  |
|  | •   |                      | 3726                |                  |  |
|  |   |                      |                     |                  |  |
|  |   |                      | MAIL DATE           | DELIVERY MODE    |  |
|  |   |                      | 01/10/2008          | PAPER            |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | 1  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| ,  | Application No.  | Applicant(s)   |  |  |  |  |
|  | 10/507,074   | OHTO ET AL.  |  |  |  |  |
| Office Action Summary  | Examiner   | Art Unit   |  |  |  |  |
|  | Essama Omgba   | 3726   |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply   | pears on the cover sheet with  | the correspondence address   |  |  |  |  |
| • •  |  |  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of the specified above, the specified above | ATE OF THIS COMMUNICA<br>36(a). In no event, however, may a rep<br>will apply and will expire SIX (6) MONTH<br>c, cause the application to become ABAI | ATION.  ly be timely filed  AS from the mailing date of this communication.  NDONED (35 U.S.C. § 133). |  |  |  |  |
| Status   |  |  |  |  |  |  |
| 1) Responsive to communication(s) filed on 09 O  | ctober 2007.   |  |  |  |  |  |
| 2a)⊠ This action is <b>FINAL</b> . 2b)☐ This   |  |  |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is   |  |  |  |  |  |  |
| closed in accordance with the practice under E   | Ex parte Quayle, 1935 C.D.   | 11, 453 O.G. 213.  |  |  |  |  |
| Disposition of Claims  |  |  |  |  |  |  |
| 4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.   |  |  |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.   |  |  |  |  |  |  |
| 5) Claim(s) is/are allowed.  |  |  |  |  |  |  |
| 6)⊠ Claim(s) <u>1-3</u> is/are rejected.   |  |  |  |  |  |  |
| 7) Claim(s) is/are objected to.  |  |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/o   | r election requirement.  |  |  |  |  |  |
| Application Papers   |  |  |  |  |  |  |
| 9) The specification is objected to by the Examine   | r  |  |  |  |  |  |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.   |  |  |  |  |  |  |
|  | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |  |  |  |  |
| Replacement drawing sheet(s) including the correct   |  |  |  |  |  |  |
| 11)☐ The oath or declaration is objected to by the Ex  | caminer. Note the attached (   | Office Action or form PTO-152.   |  |  |  |  |
| Priority under 35 U.S.C. § 119   |  |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign  | priority under 35 U.S.C. § 1   | 19(a)-(d) or (f).  |  |  |  |  |
| a) ☐ All b) ☐ Some * c) ☐ None of:   |  |  |  |  |  |  |
| 1. Certified copies of the priority documents have been received.  |  |  |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No   |  |  |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage  |  |  |  |  |  |  |
| application from the International Bureau  | u (PCT Rule 17.2(a)).  |  |  |  |  |  |
| * See the attached detailed Office action for a list   | of the certified copies not re   | ceived.  |  |  |  |  |
|  |  |  |  |  |  |  |
| Attachment(s)  |  |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892)  | 4) Interview Sur   | nmary (PTO-413)<br>Mail Date   |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)   |  | mal Patent Application   |  |  |  |  |
| Paper No(s)/Mail Date  | 6)   |  |  |  |  |  |

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 1 recites the range for clearance "C" to be 50µm<C<500µm, such a range is not disclosed in the specification as originally filed.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leifeld (GB 2 245 604).

With regards to claim 1, Leifeld discloses a needle blade roll comprising a roll main body 20 and a large number of needle blades 4a implanted into a peripheral surface of the roll main body and wherein each blade is arranged at a sloping angle

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relative to an associated radial line of the main body so that its leading end lies ahead of the radial line with respect to the rotational direction of the roll main body, a clearance "d" between leading ends of the needles blades and an internal peripheral surface falls in a range approximately between 0.5 and 5mm, see page 9, lines 1-4 and figures 1-3a and 3c. Furthermore Leifeld discloses that both distances "a" (fig. 2) and distance "d" are expediently adjustable, see page 7, lines 3-5 and page 8, lines 9-12. Therefore although Leifeld does not exactly disclose the range of 50µm to 500µm (0.05mm to 0.5mm), however it would have been obvious to one of ordinary skill in the art at the time of the invention to have used such a range in the needle blade roll of Leifeld since it has been held that, where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. Applicant should note that the recited material lends no patentable weight to the needle blade roll being claimed. Regarding the recitation of the intended use of the needle blade roll in the preamble of the claim, Applicant should note that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

For claim 2, see page 8, lines 16-19.

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Leifeld in view of Bobkowicz et al. (US Patent 3,924,396).

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Leifeld discloses a needle blade roll as shown above. Although Leifeld does not explicitly disclose the needle blades being arranged in helical fashion on the peripheral surface of the roll main body, however it is known to arrange needle blades on the peripheral surface of a roll main body in helical fashion in order to continuously convey the fibers as attested by Bobkowicz et al., see column 5, lines 3-38. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have arranged the needle blades of Leifeld in helical fashion on the peripheral surface of the roll main body, in light of the teachings of Bobkowicz, in order to continuously convey the fibers.

## Response to Arguments

6. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Essama Omgba whose telephone number is (571) 272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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January 6, 2008